

# INDEX OF AUTHORS

VOLUME XXXVI

TRANSACTIONS OF AMERICAN SOCIETY FOR METALS

1946

## A

Austin, Charles R. .... 336 Jominy, W. E. .... 543

## B

Benford, James R. .... 452  
Bowman, Fred E. .... 61

## C

Cavanagh, P. E. .... 137  
Comstock, George F. .... 81

## D

Dean, R. S. .... 116  
Doig, J. R. .... 336  
Dorn, John E. .... 254, 290

## F

Feustel, R. G. .... 116  
Finch, Dan M. .... 254, 290

## G

Gensamer, Maxwell .... 30  
Graham, T. R. .... 116

## H

Harrington, R. H. .... 311  
Hollomon, John H. .... 473

## J

Jominy, W. E. .... 543

## L

Long, J. R. .... 116

## M

Martin, D. L. .... 210

## P

Poynter, James W. .... 165

## R

Rogers, W. T. .... 361

## S

Strohm, J. Robert .... 543

## T

Tarasov, L. P. .... 389

## V

Van Note, W. G. .... 210

## W

Wilson, Scott P. .... 254, 290

# INDEX OF AUTHORS

VOLUME XXXVI

TRANSACTIONS OF AMERICAN SOCIETY FOR METALS

1946

## A

Austin, Charles R. .... 336 Jominy, W. E. .... 543

## B

Benford, James R. .... 452  
Bowman, Fred E. .... 61

## C

Cavanagh, P. E. .... 137  
Comstock, George F. .... 81

## D

Dean, R. S. .... 116  
Doig, J. R. .... 336  
Dorn, John E. .... 254, 290

## F

Feustel, R. G. .... 116  
Finch, Dan M. .... 254, 290

## G

Gensamer, Maxwell .... 30  
Graham, T. R. .... 116

## H

Harrington, R. H. .... 311  
Hollomon, John H. .... 473

## J

Jominy, W. E. .... 543

## L

Long, J. R. .... 116

## M

Martin, D. L. .... 210

## P

Poynter, James W. .... 165

## R

Rogers, W. T. .... 361

## S

Strohm, J. Robert .... 543

## T

Tarasov, L. P. .... 389

## V

Van Note, W. G. .... 210

## W

Wilson, Scott P. .... 254, 290

# INDEX OF SUBJECTS AND AUTHORS OF PAPERS

VOLUME XXXVI

TRANSACTIONS OF AMERICAN SOCIETY FOR METALS

1946

## A

Aluminum Alloys, Containing Small Amounts of Beryllium— <i>By R. H. Harrington</i> .....	311
Aluminum Alloys (Deep Drawing) at Elevated Temperatures—Part II—Deep Drawing Boxes— <i>By Dan M. Finch, Scott P. Wilson and John E. Dorn</i> .....	290
Aluminum Alloys (Deep Drawing) at Elevated Temperatures—Part I—Deep Drawing Cylindrical Cups— <i>By Dan M. Finch, Scott P. Wilson and John E. Dorn</i> .....	254
Annual Address of President.....	6
Annual Dinner of A.S.M.....	22
Annual Meeting of A.S.M.....	21
Annual Report of Secretary .....	14
Annual Report of Treasurer .....	11
Anti-Reflection Films for Metallographic Objectives — <i>By James R. Benford</i> .....	452
Austenitizing Characteristics and Induction Hardening of Several Medium Carbon Steels— <i>By D. L. Martin and W. G. Van Note</i> .....	210

## B

Beryllium; New Aluminum Alloys, Containing Small Amounts of— <i>By R. H. Harrington</i> .....	311
Boxes (Deep Drawing)—Deep Drawing Aluminum Alloys at Elevated Temperatures— <i>By Dan M. Finch, Scott P. Wilson and John E. Dorn</i> .....	290
Brittleness, Temper— <i>By John H. Hollomon</i> .....	473

## C

Campbell Memorial Lecture—20th; Strength and Ductility— <i>By Maxwell Gensamer</i> .....	30
Carbon Steels; Induction Hardening and Austenitizing Characteristics of Several Medium— <i>By D. L. Martin and W. G. Van Note</i> .....	210
Chromium Steel (4 to 6 Per Cent) Containing Molybdenum and Titanium; Effect of Variations in Composition and Heat Treatment on Some Properties of— <i>By George F. Comstock</i> .....	81
Cold-Worked and Heat Treated Alloys Containing 1 to 7 Per Cent Manganese; The Properties of—Iron-Manganese Alloys— <i>By R. S. Dean, J. R. Long, T. R. Graham and R. G. Feustel</i> .....	116
Comparisons of Stress by Correlation with High Frequency Magnetic and Eddy Current Losses— <i>By P. E. Cavanagh</i> .....	137
Composition and Heat Treatment on Some Properties of 4 to 6 Per Cent Chromium Steel Containing Molybdenum and Titanium; Effect of Variations in— <i>By George F. Comstock</i> .....	81
Cylindrical Cups (Deep Drawing)—Deep Drawing Aluminum Alloys at Elevated Temperatures— <i>By Dan M. Finch, Scott P. Wilson and John E. Dorn</i> .....	254

**D**

Deep Drawing Aluminum Alloys at Elevated Temperatures—Part I— Deep Drawing Cylindrical Cups— <i>By Dan M. Finch, Scott P. Wilson and John E. Dorn</i> .....	254
Deep Drawing Aluminum Alloys at Elevated Temperatures—Part II— Deep Drawing Boxes— <i>By Dan M. Finch, Scott P. Wilson and John E. Dorn</i> .....	290
Deep Drawing Cylindrical Cups—Deep Drawing Aluminum Alloys at El- evated Temperatures— <i>By Dan M. Finch, Scott P. Wilson and John E. Dorn</i> .....	254
Detection, Causes and Prevention of Injury in Ground Surfaces— <i>By L. P. Tarasov</i> .....	389
Ductility and Strength— <i>By Maxwell Gensamer</i> .....	30

**E**

Eddy Current Losses and High Frequency Magnetic; Stress Comparisons by Correlation with— <i>By P. E. Cavanagh</i> .....	137
Effect of Variations in Composition and Heat Treatment on Some Prop- erties of 4 to 6 Per Cent Chromium Steel Containing Molybdenum and Titanium— <i>By George F. Comstock</i> .....	81
Election of Officers of A.S.M. ....	21

**F**

Facets in Fracture Tests; High Forging Temperatures Revealed by— <i>By J. Robert Strohm and W. E. Jominy</i> .....	543
Forging Temperatures Revealed by Facets in Fracture Tests— <i>By J. Robert Strohm and W. E. Jominy</i> .....	543
Fracture Tests; High Forging Temperatures Revealed by Facets in— <i>By J. Robert Strohm and W. E. Jominy</i> .....	543

**G**

Grinding Cracks—Detection, Causes and Prevention of Injury in Ground Surfaces— <i>By L. P. Tarasov</i> .....	389
---	-----

**H**

Heat Treated and Cold-Worked Alloys Containing 1 to 7 Per Cent Man- ganese; The Properties of—Iron-Manganese Alloys— <i>By R. S. Dean, J. R. Long, T. R. Graham and R. G. Feustel</i> .....	116
Heat Treatment and Composition on Some Properties of 4 to 6 Per Cent Chromium Steel Containing Molybdenum and Titanium; Effect of Variations in— <i>By George F. Comstock</i> .....	81
Heat Treatment—Metallurgical Characteristics of Induction-Hardened Steel— <i>By James W. Poynter</i> .....	165
High Forging Temperatures Revealed by Facets in Fracture Tests— <i>By J. Robert Strohm and W. E. Jominy</i> .....	543
High Frequency Magnetic and Eddy Current Losses; Stress Comparisons by Correlation with— <i>By P. E. Cavanagh</i> .....	137
Hypoeutectoid Iron-Carbon-Molybdenum Alloys; Partition of Molyb- denum in— <i>By Fred E. Bowman</i> .....	61

**I**

Induction-Hardened Steel; Metallurgical Characteristics of— <i>By James W. Poynter</i> .....	165
Induction Hardening and Austenitizing Characteristics of Several Medium Carbon Steels— <i>By D. L. Martin and W. G. Van Note</i> .....	210
Iron-Carbon-Molybdenum Alloys; Partition of Molybdenum in Hypoeu- tectoid— <i>By Fred E. Bowman</i> .....	61

Iron-Manganese Alloys—The Properties of Cold-Worked and Heat Treated Alloys Containing 1 to 7 Per Cent Manganese— <i>By R. S. Dean, J. R. Long, T. R. Graham and R. G. Feustel</i> .....	116
--	-----

## M

Manganese (1 to 7 Per Cent); The Properties of Cold-Worked and Heat Treated Alloys Containing—Iron-Manganese Alloys— <i>By R. S. Dean, J. R. Long, T. R. Graham and R. G. Feustel</i> .....	116
Manganese-Molybdenum Steels; Suppression of Pearlite in— <i>By Charles R. Austin and J. R. Doig</i> .....	336
Metallographic Objectives; Anti-Reflection Films for— <i>By James R. Benford</i> .....	452
Metallurgical Characteristics of Induction-Hardened Steel— <i>By James W. Poynter</i> .....	165
Molybdenum and Titanium; Effect of Variations in Composition and Heat Treatment on Some Properties of 4 to 6 Per Cent Chromium Steel Containing— <i>By George F. Comstock</i> .....	81
Molybdenum Partition in Hypoeutectoid Iron-Carbon-Molybdenum Alloys — <i>By Fred E. Bowman</i> .....	61

## N

New Aluminum Alloys, Containing Small Amounts of Beryllium— <i>By R. H. Harrington</i> .....	311
--	-----

## P

Partition of Molybdenum in Hypoeutectoid Iron-Carbon-Molybdenum Alloys— <i>By Fred E. Bowman</i> .....	61
Pearlite Suppression in Manganese-Molybdenum Steels— <i>By Charles R. Austin and J. R. Doig</i> .....	336
Practical Application of Statistical Methods in a Quality Control Program— <i>By W. T. Rogers</i> .....	361
President's Annual Address .....	6
Properties of Cold-Worked and Heat Treated Alloys Containing 1 to 7 Per Cent Manganese—Iron-Manganese Alloys— <i>By R. S. Dean, J. R. Long, T. R. Graham and R. G. Feustel</i> .....	116

## Q

Quality Control Program; Practical Application of Statistical Methods in a— <i>By W. T. Rogers</i> .....	361
--	-----

## S

Secretary's Annual Report .....	14
Statistical Methods in a Quality Control Program; Practical Application of— <i>By W. T. Rogers</i> .....	361
Strength and Ductility— <i>By Maxwell Gensamer</i> .....	30
Stress Comparisons by Correlation with High Frequency Magnetic and Eddy Current Losses— <i>By P. E. Cavanagh</i> .....	137
Suppression of Pearlite in Manganese-Molybdenum Steels— <i>By Charles R. Austin and J. R. Doig</i> .....	336

## T

Technical Program and Reports of Officers, A.S.M.—27th Annual Convention, Cleveland, February 4 to 8, 1946.....	1
Temper Brittleness— <i>By John H. Hollomon</i> .....	473
Titanium and Molybdenum; Effect of Variations in Composition and Heat Treatment on Some Properties of 4 to 6 Per Cent Chromium Steel Containing— <i>By George F. Comstock</i> .....	81
Treasurer's Report .....	11